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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	MAY 01	New CAS web site launched
NEWS 3	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS 4	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 5	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS 6	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS 7	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS 8	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents
NEWS 9	JUN 27	CA/CAplus enhanced with pre-1967 CAS Registry Numbers
NEWS 10	JUN 29	STN Viewer now available
NEWS 11	JUN 29	STN Express, Version 8.2, now available
NEWS 12	JUL 02	LEMBASE coverage updated
NEWS 13	JUL 02	LMEDLINE coverage updated
NEWS 14	JUL 02	SCISEARCH enhanced with complete author names
NEWS 15	JUL 02	CHEMCATS accession numbers revised
NEWS 16	JUL 02	CA/CAplus enhanced with utility model patents from China
NEWS 17	JUL 16	CAplus enhanced with French and German abstracts
NEWS 18	JUL 18	CA/CAplus patent coverage enhanced
NEWS 19	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 20	JUL 30	USGENE now available on STN
NEWS 21	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS 22	AUG 06	BEILSTEIN updated with new compounds
NEWS 23	AUG 06	FSTA enhanced with new thesaurus edition
NEWS 24	AUG 13	CA/CAplus enhanced with additional kind codes for granted patents
NEWS 25	AUG 20	CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS 26	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 27	AUG 27	USPATOLD now available on STN
NEWS 28	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS 29	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS 30	SEP 13	FORIS renamed to SOFIS
NEWS 31	SEP 13	INPADOCDB: New SDI frequency MONTHLY available now

NEWS EXPRESS 05 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 SEPTEMBER 2007.

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NEWS IPC8	For general information regarding STN implementation of IPC 8

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FILE 'HOME' ENTERED AT 17:38:09 ON 16 SEP 2007

=> file reg
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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STRUCTURE FILE UPDATES: 14 SEP 2007 HIGHEST RN 947298-73-9
DICTIONARY FILE UPDATES: 14 SEP 2007 HIGHEST RN 947298-73-9

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10550255.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss full
FULL SEARCH INITIATED 17:39:18 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 103947 TO ITERATE

100.0% PROCESSED 103947 ITERATIONS 4893 ANSWERS
SEARCH TIME: 00.00.03

L2 4893 SEA SSS FUL L1

```
=>
Uploading C:\Program Files\Stnexp\Queries\10550255a.str

L3      STRUCTURE UPLOADED

=> d l3
L3 HAS NO ANSWERS
L3              STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.


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FULL SEARCH INITIATED 17:42:10 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   281185 TO ITERATE

100.0% PROCESSED   281185 ITERATIONS                          3150 ANSWERS
SEARCH TIME: 00.00.04

L4         3150 SEA SSS FUL L3

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             346.45     346.66

FILE 'CAPLUS' ENTERED AT 17:42:29 ON 16 SEP 2007
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FILE COVERS 1907 - 16 Sep 2007  VOL 147 ISS 13
FILE LAST UPDATED: 14 Sep 2007  (20070914/ED)

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=> s l2
L5         5501 L2

=> s l4
L6         7837 L4

=> s l5 and l6
L7           91 L5 AND L6

=> file reg
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
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FULL ESTIMATED COST 2.35 349.01

FILE 'REGISTRY' ENTERED AT 17:45:33 ON 16 SEP 2007
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STRUCTURE FILE UPDATES: 14 SEP 2007 HIGHEST RN 947298-73-9
DICTIONARY FILE UPDATES: 14 SEP 2007 HIGHEST RN 947298-73-9

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10550255b.str

L8 STRUCTURE UPLOADED

=> s l8 sss full
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FULL SCREEN SEARCH COMPLETED - 28541 TO ITERATE

100.0% PROCESSED 28541 ITERATIONS 93 ANSWERS
SEARCH TIME: 00.00.01

L9 93 SEA SSS FUL L8

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 172.10 521.11

FILE 'CAPLUS' ENTERED AT 17:46:21 ON 16 SEP 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 16 Sep 2007 VOL 147 ISS 13
FILE LAST UPDATED: 14 Sep 2007 (20070914/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

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=> s l9
L10         54 L9

=> d his

     (FILE 'HOME' ENTERED AT 17:38:09 ON 16 SEP 2007)

     FILE 'REGISTRY' ENTERED AT 17:38:28 ON 16 SEP 2007
L1               STRUCTURE UPLOADED
L2          4893 S L1 SSS FULL
L3               STRUCTURE UPLOADED
L4          3150 S L3 SSS FULL

     FILE 'CAPLUS' ENTERED AT 17:42:29 ON 16 SEP 2007
L5          5501 S L2
L6          7837 S L4
L7            91 S L5 AND L6

     FILE 'REGISTRY' ENTERED AT 17:45:33 ON 16 SEP 2007
L8               STRUCTURE UPLOADED
L9            93 S L8 SSS FULL

     FILE 'CAPLUS' ENTERED AT 17:46:21 ON 16 SEP 2007
L10           54 S L9

=> s l7 and l10
L11           4 L7 AND L10

=> d l11 ibib ab hitstr tot

L11  ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         2004:857685  CAPLUS
DOCUMENT NUMBER:          141:331639
TITLE:                    Synthesis of 3-substituted 4-aminobenzenesulfonamides,
                          intermediates in benzophenone reverse transcriptase
                          inhibitor preparation
INVENTOR(S):              Martin, Michael Tolar
PATENT ASSIGNEE(S):       Smithkline Beecham Corporation, USA
SOURCE:                   PCT Int. Appl., 17 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.          DATE
     ---------------      ----   --------    --------------------     --------
     WO 2004087881         A2    20041014    WO 2004-US9375           20040326
     WO 2004087881         A3    20041111
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
             ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
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SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

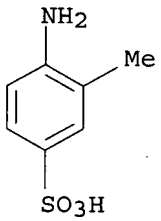
EP 1628953	A2	20060301	EP 2004-758431	20040326
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
JP 2006521402	T	20060921	JP 2006-509365	20040326
US 2006183944	A1	20060817	US 2005-550255	20050922
PRIORITY APPLN. INFO.:			US 2003-458144P	P 20030327
			WO 2004-US9375	W 20040326

OTHER SOURCE(S): CASREACT 141:331639; MARPAT 141:331639

AB The present invention is directed to processes for the synthesis of intermediates useful in the preparation of non-nucleoside reverse transcriptase inhibitors. Thus, 3-substituted 4-aminobenzenesulfonic acid is reacted with DMF and a chlorinating agent to form the N-protected sulfonyl chloride which is reacted with ammonia to form the protected sulfonamide. This compound is deprotected to prepare the 3-substituted 4-aminobenzenesulfonamide, which is useful in preparation of benzophenone derivs.

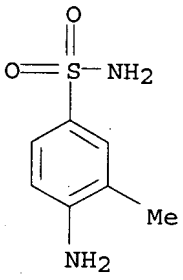
IT 98-33-9, 4-Amino-3-methylbenzenesulfonic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis of 3-substituted 4-aminobenzenesulfonamides, intermediates in benzophenone reverse transcriptase inhibitor preparation)

RN 98-33-9 CAPLUS
CN Benzenesulfonic acid, 4-amino-3-methyl- (CA INDEX NAME)

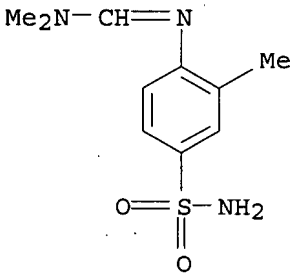


IT 53297-70-4P, 4-Amino-3-methylbenzenesulfonamide
770736-84-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of 3-substituted 4-aminobenzenesulfonamides, intermediates in benzophenone reverse transcriptase inhibitor preparation)

RN 53297-70-4 CAPLUS
CN Benzenesulfonamide, 4-amino-3-methyl- (CA INDEX NAME)



RN 770736-84-0 CAPLUS
CN Benzenesulfonamide, 4-[[(dimethylamino)methylene]amino]-3-methyl- (9CI) (CA INDEX NAME)

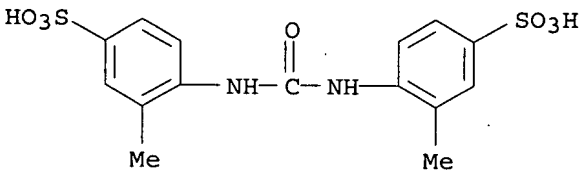


L11 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1973:97226 CAPLUS
DOCUMENT NUMBER: 78:97226
TITLE: Sulfonohydrazides and related compounds. XIII. Sulfanilohydrazides
AUTHOR(S): Cremlyn, Richard J. W.; Leonard, David; Motwani, Ramesh
CORPORATE SOURCE: Dep. Chem. Sci., Hatfield Polytech., Hatfield, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1973), (5), 500-3
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English

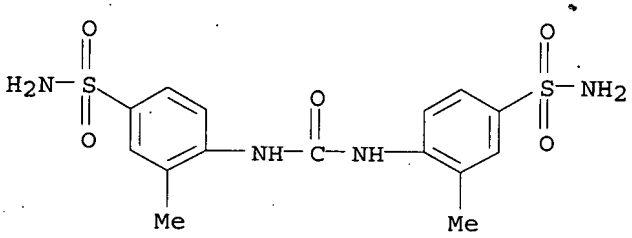
AB p-NH2CONHC6H4SO2NHNH2 (I) with ketones and aldehydes gave the hydrazones. (PhNH)2CO with ClSO3H followed by N2H4 gave (p-NH2NHO2SC6H4NH)2CO, which reacted analogously to I. Similar chlorosulfonation of di-o, -p-. and -m-tolylureas gave disulfonic acids. p-Succinimidobenzenesulfonyl chloride with NH2NH2.H2O gave p-H2NNHCO(CH2)2CONHC6H4SO2NHNH2 by ring cleavage.

IT 40686-05-3P 40686-07-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 40686-05-3 CAPLUS
CN Benzenesulfonic acid, 4,4'-(carbonyldiimino)bis[3-methyl- (9CI) (CA INDEX NAME)



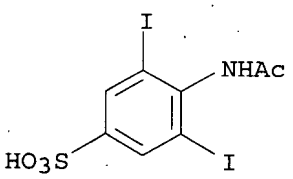
RN 40686-07-5 CAPLUS
CN Benzenesulfonamide, 4,4'-(carbonyldiimino)bis[3-methyl- (9CI) (CA INDEX NAME)



L11 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1968:114214 CAPLUS
DOCUMENT NUMBER: 68:114214
TITLE: Contrast media. III. Iodine derivatives of substituted sulfanilamides
AUTHOR(S): Radek, Otto; Kejha, Jiri; Nemecek, Oldrich; Kakac, Bohumil
CORPORATE SOURCE: Res. Inst. Pharm. Biochem., Prague, Czech.
SOURCE: Cesko-Slovenska Farmacie (1967), 16(1), 34-8
CODEN: CKFRAY; ISSN: 0009-0530
DOCUMENT TYPE: Journal
LANGUAGE: Czech

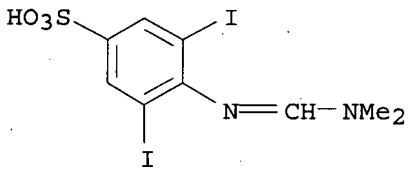
AB Sulfonamides serving as starting material for the title compds. were prepared by treatment of 4-acetamidobenzenesulfonyl chloride (I, R1 = Cl, R2 = R4 = H, R3 = NHAc) with various primary and secondary amines; some of them were new. The AcNH group was hydrolyzed with aqueous HCl and 4-aminobenzenesulfonamides were iodinated by ICl, KICl2, or NaICl2 to give the I shown in the table. Thus 22.0 g. I (R1 = NMe2, R2 = R4 = H, R3 = NH2 (Ia) was dissolved in 1200 ml. H2O and 60 ml. HCl at 60°, the solution cooled to 20°, and 110 ml. 2M KICl2 added. [TABLE OMITTED] After a while an orange-yellow substance precipitated and the mixture was stirred for 6 hrs. at 20° to give II. Ia (140 g.) was dissolved in 720 ml. H2O and 80 ml. HCl at 60°, the solution cooled to 40°, and 33 ml. 75% ICl in HCl added. The mixture was heated up to 90° during 1 hr. and kept for 5 hrs. to give III. I (R1 = NEt2, R2 = R4 = H, R3 = NH2) (20.52 g.) was dissolved in 1080 ml. H2O and 30 ml. HCl at 70°, cooled to 20°, and 100 ml. 2M NaICl2 was added. The mixture was stirred for 6 hrs. to give IV. Iodinated derivs. containing NHCONH2 could not be prepared and on attempted reaction of 4-ureidobenzenesulfonic acid or amide with ICl only 4-amino derivs. were obtained. The acylated 3,5-diiodo derivs. of sulfanilic acid are generally rather unstable; e.g. the acetyl group is lost from I (R1 = OH, R2 = R4 = I, R4 = NHAc) on attempted recrystn. III showed an antibacterial activity comparable with that of sulfadimidine, and compds. V and VI passed into gall bladder thus enabling its roentgenographic investigation.

IT 13192-25-1P 18229-71-5P 18229-72-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 13192-25-1 CAPLUS
CN Benzenesulfonic acid, 4-(acetylamino)-3,5-diiodo-, monosodium salt (9CI) (CA INDEX NAME)

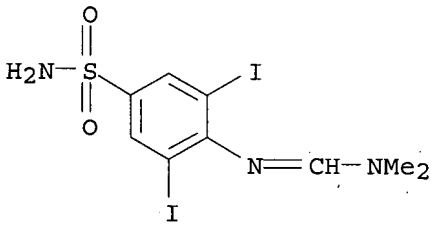


● Na

RN 18229-71-5 CAPLUS
CN Sulfanilic acid, N-[(dimethylamino)methylene]-3,5-diiodo- (8CI) (CA INDEX NAME)



RN 18229-72-6 CAPLUS
CN Sulfanilamide, N4-[(dimethylamino)methylene]-3,5-diiodo- (8CI) (CA INDEX NAME)



L11 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1960:129053 CAPLUS
DOCUMENT NUMBER: 54:129053
ORIGINAL REFERENCE NO.: 54:24766h-i,24767a-i,24768a-c
TITLE: Quinazolinone sulfonamides. A new class of diuretic agents
AUTHOR(S): Cohen, Elliott; Klarberg, Betty; Vaughan, James R., Jr.
CORPORATE SOURCE: Am. Cyanamid Co., Pearl River, NY
SOURCE: Journal of the American Chemical Society (1960), 82, 2731-5
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 54:129053

AB A series of 7-chloro-6-sulfamoyl-4(3H)-quinazolinones and 7-chloro-6-sulfamoyl-1,2,3,4-tetrahydro-4-quinazolinones were prepared and found to have a diuretic activity equal to or better than the benzothiadiazine 1,1-dioxides in exptl. animals. 4,2-Cl(H2N)C6H3CO2H(I) (17.2 g.) in 15 cc. 30% cold oleum treated dropwise with 11.6 g. ClSO3H, the mixture heated 2.75 hrs. at 95-100° and 2 hrs. at 175-80° cooled to room temperature, poured onto 300 g. crushed ice, stirred, and filtered yielded 20.0 g. 5-SO3H derivative (II) of I, pale yellow, m. above 360° (decomposition) (hot H2O). II (20.0 g.), 200 cc. 98% HCO2H, and 20.0 g. HCO2Na heated 2 hrs. on the steam bath and evaporated, the residue triturated with a small amount of iced H2O, refrigerated 1 hr., and filtered yielded 11.4 g. N-CHO derivative (III) of II, m. above 360° (aqueous dioxane). III (1.0 g.), 10 cc. POCl3, and 1.5 g. PCl5 heated 5 hrs. on the steam bath, cooled, and poured onto ice gave the 5-SO2Cl analog of III. 5,2-ClMeC6H3NHAc (IV) (58 g.) and 100 cc. cold ClSO3H containing 17 g. NaCl heated 2 hrs. on the steam bath, cooled, poured onto 500 g. ice, stirred, filtered, the residue added to 500 cc. concentrated NH4OH, this heated 0.5 hr. with stirring to solution, kept 0.5 hr., filtered, the residue dissolved in aqueous NaOH, treated with C, and repptd. with concentrated HCl yielded 40 g. 4-SO2NH2 derivative (V) of IV, m. above 265°, and 6.0 g. NaOH-insol. crystals; the NH4OH filtrate concentrated gave 13 g. crystals, apparently the NH4 salt of the 4-SO3H derivative of V. V (40 g.) added in portions to 50 g. KMnO4 in 500 cc. warm H2O, the mixture heated 1.5 hrs. on the steam bath, cooled, filtered, the residue washed with 50 cc. dilute aqueous

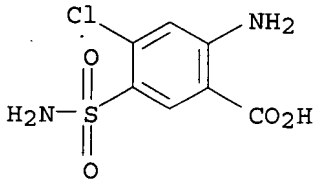
NaOH, the combined filtrates treated with C, acidified, and cooled overnight gave 14 g. 5,2,4-Cl(HO2C)(H2NO2S)C6H2NHAc (VI), m. 254-6°. VI (10 g.) dissolved with warming and stirring in 200 cc. EtOH and 200 cc. HCl, the mixture heated 0.5 hr. on the steam bath, cooled, concentrated in vacuo to near dryness, dissolved in 20 cc. N NaOH, clarified with C, acidified to Congo red, cooled overnight, and filtered gave 5.5 g. 5,2,4-Cl(HO2C)(H2NO2S)C6H2NH2 (VII), m. 275°; yields of 90% were obtained by saponification with 3N NaOH. VII (2 g.) and 2 g. EtCONH2 heated 4 hrs. at 185-90°, the mixture stirred 1 hr. with cooling with 10% aqueous NaHCO3, filtered, the residue dissolved in 20 cc. N NaOH, treated with C, and acidified with concentrated HCl gave 1 g. 7-chloro-2-ethyl-6-sulfamoyl-4(3H)-quinazolinone (VIII), m. above 250°. VI (1.0 g.) and 1.0 g. H2NCO2Et heated 3 hrs. at 180-90°, cooled, treated with 10 cc. 10% aqueous NaHCO3, the mixture stirred 1 hr., filtered, the residue dissolved in 5 cc. N NaOH, washed with EtOAc and Et2O, treated with C, and repptd. with concentrated HCl yielded 2-Me homolog (IX) of VIII. VII, Bu3N (or Et3N), and ClCO2Et (equivalent molar amts.) stirred 5-10 min. at -5 to -10°, the mixture treated with excess aqueous or liquid NH3, stirred 10-30 min. in the cold and 10-30 min. on the steam bath, evaporated, the residue diluted with H2O, the mixture filtered, the filter residue stirred with aqueous NaHCO3 to remove 50-70% VII, and the insol. solid recrystd. from EtOH yielded 20-30% 4,2,5-Cl(H2N)-(H2NO2S)C6H2CONH2 (X), m. 282-4° (decomposition); an increase in reaction temperature caused the formation of 2,4,5-Cl(H2NCONH)(HO2C)C6H2SO2NH2, m. 218°. VI converted to the glycol or Me ester and then amidated gave X. X (1.0 g.) in 100 cc. EtOH refluxed 1 hr. with 2 drops concentrated HCl and 0.70 cc. EtCH(OEt)2, the mixture evaporated in vacuo, and the residue triturated with 25 cc. H2O yielded 0.90 g. 7-chloro-2-ethyl-6-sulfamoyl-1,2,3,4-tetrahydro-4-quinazolinone (XI), m. 250-2° (aqueous Me2CO). NaCl (0.30 g.) and 3.0 cc. cold ClSO3H treated dropwise with cooling with 1.0 g. 5,2-ClMeC6H3NH2, the mixture heated 2 hrs. at 145°, cooled, poured on ice, filtered, the residue added to liquid NH3, the solution evaporated at room temperature, the crude product (1.2 g.) dissolved in 1.0N NaOH, the solution treated with HCl, and repptd. with HCl yielded 2,5,4-ClMe(H2N)C6H2SO2NH2, m. 242-4° (aqueous EtOH). VII (1.0 g.) and 50 cc. (EtCO)2O heated 3 hrs. on the steam bath, poured into 200 cc. iced H2O, stirred, and filtered gave 0.65 g. 2,5,4-ClMe(EtCONH)C6H2SO2NHCOEt.0.5H2O, m. 237-8° (with effervescence). VII (5.0 g.) and 5 cc. HCONH2 heated 3.5 hrs. at 170-5°, the mixture cooled, poured into 25 cc. cold H2O, and triturated with MeOH yielded 1.8 g. crude product, which dissolved in 0.1N NaOH, treated with C, and repptd. with HCl gave 7-chloro-6-sulfamoyl-4(3H)-quinazolinone (XII), m. 310-15°. VII (1.0 g.) and 1.0 cc. HCONHMe heated 4 hrs. at 175-80° the mixture cooled, triturated with 5 cc. MeOH, filtered, the residue stirred with 5 cc. 10% aqueous NaHCO3, dissolved in 0.1N NaOH, treated with C, and repptd. with HCl gave 0.25 g. 3-Me derivative (XIII) of XII. VII (0.5 g.) and 0.5 cc. AcNHMe heated 4 hrs. at 195-200°, the mixture cooled, triturated with MeOH, diluted with 5 cc. H2O, refrigerated overnight, the solid (0.50 g.) stirred with 10% aqueous NaHCO3, filtered, and repptd. in the usual manner yielded 2,3-di-Me derivative (XIV) of XII, m. 245°. VII (2.5 g.) and 2.5 g. iso-PrCONH2 heated 3.5 hrs. at 190° dissolved in hot MeOH, concentrated slightly, diluted with H2O, filtered, and the residue (1.0 g.) stirred with aqueous NaHCO3 and purified in the usual manner yielded 0.20 g. 2-iso-Pr derivative (XV) of XII, needles, m. 290°. VII (0.50 g.) and 0.50 g. urea heated 3 hrs. at 180°, cooled, stirred with 10% aqueous NaHCO3, filtered, and the residue (0.30 g.) purified in the usual manner gave 0.15 g. 7-chloro-2,4-dihydroxy-6-sulfamoylquinazoline (XVI), m. 275°. XII (2.0 g.) added with warming to 1.03 g. AlCl3 in 250 cc. dry diglyme, the mixture treated dropwise with 1.4 g. NaBH4 in 70 cc. dry diglyme, kept 1 hr. at 85°, cooled, treated slowly with 40 cc. H2O, acidified, evaporated, and

the residue triturated with cold H2O yielded 0.90 g. 1,2,3,4-tetrahydro derivative (XVII) of XII, m. 256-8°.. Similarly were prepared the tetrahydro derivs. of the following compds. (% yield and m.p. given): IX (XVIII), 60 (73% from X), 285°; XIII, 25, 257-9°; XIV, 47, 233-5°; XV, 60, 230°; Bu derivative of XVII.0.25H2O, 70 (from X with BuCHO in diglyme), 219°. The average % change from the control in electrolyte excretion in dogs (orally) was determined for the following compds. (dose administered in mg./kg., % chloride and % potassium excretion during 24 hrs. given): chlorothiazide, 20, 266, 112; XII, 20, 261, 98; IX, 20, 223, 76; dihydrochlorothiazide (XIX), 1,201, 57; XIX, 5, 374, 122; XVIII, 1,150, 9; XVIII, 5, 360, 58; XVII, 1, 49, 22; XVII, 5, 212, 24; XI, 1,215, 101; XI, 5,291, 32.

IT 3086-91-7P, Anthranilic acid, 4-chloro-5-sulfamoyl-
17560-53-1P, o-Acetotoluidide, 5-chloro-4'-sulfamoyl-
17560-54-2P, Anthranilic acid, N-acetyl-4-chloro-5-sulfamoyl-
21501-33-7P, Anthranilic acid, N-carbamoyl-4-chloro-5-sulfamoyl-
34121-17-0P, Benzamide, 2-amino-4-chloro-5-sulfamoyl-
64174-54-5P, Anthranilic acid, 4-chloro-5-sulfo-
72629-59-5P, m-Toluenesulfonamide, 4-amino-6-chloro-
98557-08-5P, Sulfanilic acid, 2-chloro-5-(chloroformyl)-N-formyl-
98557-46-1P, Anthranilic acid, 4-chloro-N-formyl-5-sulfo-
99233-57-5P, m-Toluenesulfonic acid, 4-acetamido-6-chloro-
RL: PREP (Preparation)
(preparation of)

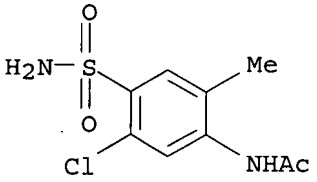
RN 3086-91-7 CAPLUS

CN Benzoic acid, 2-amino-5-(aminosulfonyl)-4-chloro- (9CI) (CA INDEX NAME)



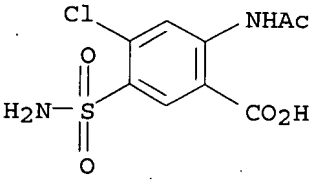
RN 17560-53-1 CAPLUS

CN Acetamide, N-[4-(aminosulfonyl)-5-chloro-2-methylphenyl]- (9CI) (CA INDEX NAME)

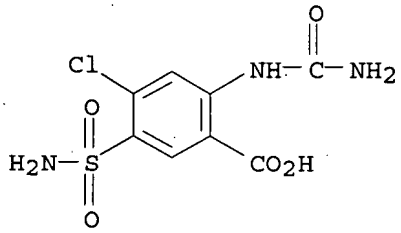


RN 17560-54-2 CAPLUS

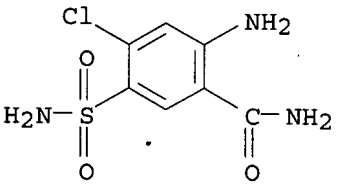
CN Benzoic acid, 2-(acetylamino)-5-(aminosulfonyl)-4-chloro- (9CI) (CA INDEX NAME)



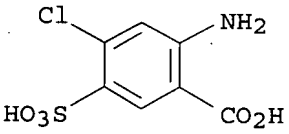
RN 21501-33-7 CAPLUS
CN Benzoic acid, 2-[(aminocarbonyl)amino]-5-(aminosulfonyl)-4-chloro- (9CI) (CA INDEX NAME)



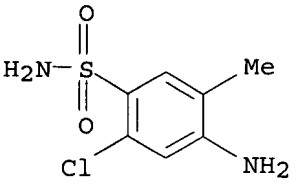
RN 34121-17-0 CAPLUS
CN Benzamide, 2-amino-5-(aminosulfonyl)-4-chloro- (9CI) (CA INDEX NAME)



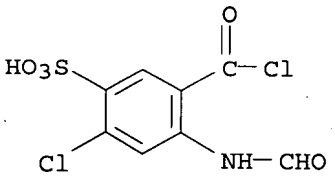
RN 64174-54-5 CAPLUS
CN Benzoic acid, 2-amino-4-chloro-5-sulfo- (9CI) (CA INDEX NAME)



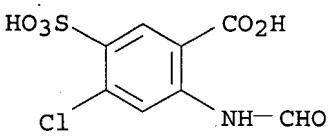
RN 72629-59-5 CAPLUS
CN Benzenesulfonamide, 4-amino-2-chloro-5-methyl- (9CI) (CA INDEX NAME)



RN 98557-08-5 CAPLUS
CN Sulfanilic acid, 2-chloro-5-(chloroformyl)-N-formyl- (6CI) (CA INDEX NAME)



RN 98557-46-1 CAPLUS
CN Anthranilic acid, 4-chloro-N-formyl-5-sulfo- (6CI) (CA INDEX NAME)



RN 99233-57-5 CAPLUS
CN m-Toluenesulfonic acid, 4-acetamido-6-chloro- (6CI) (CA INDEX NAME)